

SLOTTED KEY STORAGE DEVICERelated Application

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5 filed October 25, 1999.

Background of the InventionField of the Invention

This invention relates to the field of key storage devices, and more particularly to a device for holding a spare key in a convenient, safe and attractive manner consistent 10 with outdoor landscaping.

Description of the Related Art

Keeping a backup or spare key for emergency purposes is desirable because keys are commonly lost or misplaced. One of the problems with keeping a backup or spare key, however, is that the key itself is susceptible to being lost or misplaced. Also, when 15 the spare key to a residence or the like is stored outside, there is a risk that the key may be discovered by an unintended person. However, when additional effort is made to hide the key from unintended users, the risk of losing the key increases. Also, taking pains to hide the key is often impractical and unpleasant.

Various devices have been created to hold keys outside so that they are available 20 to an intended user but hidden from unintended users. For example, boxes to hold the key can be buried or hidden and can have trap doors disposed therein to provide access to the key. However, these boxes may rust and age when exposed to harsh outdoor conditions. Trap doors may become inflexible over time and get stuck, becoming unopenable without dismantling the box. Also, devices that rust or allow excessive 25 water to contact the key may facilitate the key becoming destroyed over time. Further, such devices often appear unnatural and are easy to identify as key-holders.

Another device comprises a plastic simulated boulder with a compartment formed therein for holding a key. Such a plastic device is not ideally suited to an outdoor environment because the plastic may age over time and fade. Also, a plastic 30 device situated in a landscape may appear unnatural and be easy to spot. Even if the plastic device appears natural, the realities of plastics dictate that many such devices

would be manufactured using the same mold and would thus be identical. Therefore, a potential burglar or other unauthorized person familiar with such devices would easily identify the plastic boulder as a key-holding device. Thus, the unauthorized person could easily retrieve a key from the device and gain convenient access to the house.

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Summary of the Invention

Accordingly, there is a need for a key storage device that appears natural and blends in with landscaping, provides easy access to the intended user, does not wear over time, and protects a key disposed therein from the elements.

In accordance with a preferred embodiment of the present invention, a key storage device comprising a landscape member having at least one slot formed on a side thereof and having a removable strip substantially covering the slot is provided. In certain other embodiments, the landscape member may be a natural stone or another article typically found in a landscape. After a key is placed in the slot, an elongate rubber strip may be applied to cover and substantially seal the slot.

15 In accordance with another embodiment having features of the present invention, a method for making a key storage device is disclosed. The method comprises the steps of forming a slot in a selected piece of natural material and forming a closing strip adapted to substantially enclose the slot. In certain other embodiments, further steps of the method can include using a circular grinder to form the slot in the piece of material.

20 In accordance with another embodiment having features of the present invention, a key storage device comprising a stone having a slot formed therein is provided. The slot is sized to accommodate a key and means are provided for substantially sealing the slot.

25 For purposes of summarizing the invention and the advantages achieved over the prior art, certain objects and advantages of the invention have been described herein above. Of course, it is to be understood that not necessarily all such objects or advantages may be achieved in accordance with any particular embodiment of the invention. Thus, those skilled in the art will recognize that the invention may be embodied or carried out in a manner that achieves or optimizes one advantage or group of advantages as taught herein without necessarily achieving other objects or advantages as may be taught or suggested herein.

All of these embodiments are intended to be within the scope of the invention herein disclosed. These and other embodiments of the present invention will become readily apparent to those skilled in the art from the following detailed description of the preferred embodiments having reference to the attached figures, the invention not being limited to any particular preferred embodiment(s) disclosed.

Brief Description of the Drawings

Figure 1 is a perspective view of a key storage device having features in accordance with the present invention.

Figure 2 is a bottom view of the key storage device of Figure 1.

Figure 2A is a cross-sectional view of a cover strip of Figure 2 taken along lines 2A-2A of Figure 2.

Figure 3 is a cross-sectional side view of the key storage device of Figure 1, taken along lines 3-3 of Figure 1 and showing a key disposed in the slot formed in the device.

Figure 4 is a bottom view of another embodiment of a key storage device having features in accordance with the present invention.

Figure 5A is a cross-sectional side view of the key storage device of Figure 1, taken along lines 5-5 of Figure 2.

Figure 5B is a partial, cross-sectional side view taken along lines 5B-5B of Figure 5A.

Detailed Description of the Preferred Embodiment

Referring to Figures 1-3, the present invention comprises a key storage device 10 having a body 12 with a slot 14 formed on a bottom side 16 thereof. The slot 14 preferably extends into the body 12 and is sized to accommodate a key 18 therewithin. A strip 20 fits into the slot 14 to substantially enclose the slot 14 with the key 18 therewithin.

Preferably, the slot 14 is between about 1/16-3/8 inch in width, and is most preferably about 1/8 inch wide. The depth of the slot 14 is preferably between about 1/2-2 inches, and is more preferably between about 1 and 1-1/2 inches. The length of the slot 14 is preferably between about 2-6 inches, and is more preferably about 4 inches. The slot 14 is preferably formed by urging a circular rotating diamond grinder

blade (not shown) into the body 12 to a predetermined depth. The grinder blade is preferably between about 2-7 inches in diameter, and is most preferably between about 4-5 inches in diameter.

The pliant cover strip 20 is adapted to substantially seal the slot 14 from entry by dirt, debris or water. Preferably, the cover strip 20 is an elongate rubber or plastic piece having outer ribs 24 (Figure 2A). A hole 26 is preferably formed longitudinally through the strip 20 and aids compliancy. The ribs 24 aid in sealing of the slot 14 to undesirable elements. In practice, the strip 20 is preferably slightly larger in diameter than the diameter of the slot 14 so that the pliable strip 20 seals the slot 14 from the elements when the strip 20 is placed within the slot 14 as will be understood by those skilled in the art. Likewise, the strip 20 is long enough to seal the slot 14 from the elements. Other types of pliant material that will at least partially fit snugly in the slot 14 can also be used as will be recognized by those skilled in the art. Preferably, the strip 20 is sized to be about the same length as the slot 14 and each end 28, 30 is preferably cut at an angle, thus aiding removal of the strip 20 and sealing of either end of the slot 14. Having a strip 14 with at least one angled end also aids in removing the strip 20 from the slot 14 when desired. The angle ϕ of the ends 28, 30 relative to the body 30 of the strip 20 is preferably between about 10° and 90° and more preferably is about 45° .

Preferably, the cover strip 20 is adapted to be reusable; however, in certain embodiments, various types of nonreusable strips may be used. For instance, a strip of tape such as duct tape may appropriately be used to seal the slot 14. Also, semi-permanent sealing methods, such as a glue gun, can be used.

The body 12 of the key storage device 10 is preferably a hunk of natural stone and more preferably is a hard rock such as granite or Colorado River Rock. However, the body 12 can be selected from a variety of materials to customize the device to match the desired landscaping. For instance, bricks or blocks can be used as bodies for the key storage device 10. Other materials include, but are not limited to, slate, round rock, cement blocks, paving stones and even railroad ties. In essence, any member of the desired landscape that can accommodate a slot permanently formed therein can function as a key storage device in accordance with the present invention. However, nonporous

materials such as hard rock can be expected to enable better sealing of the slot 14 and better protection of the key 18 from the elements.

The slot 14 is most preferably located on a substantially flat bottom side 16 of the storage device body 12. Smooth, rounded shapes may also be preferred. Body 5 shapes with dramatic features may also be acceptable, but decreased sealing ability of the cover strip 20 should be expected.

To accommodate the slot 14 formed in the undersurface 16 of the body 12, the body 12 must, of course, be thicker than the depth of the slot 14. Preferably, the body 12 has a thickness more than about $\frac{1}{2}$ inch. Most preferably, the body 12 is at least 10 about 2 inches thick. However, in an embodiment having a body that is not thick enough to accommodate a slot through its undersurface, the slot may be formed on another side of the body.

With next reference to Figure 4, another embodiment of a key storage device 15 110 having features of the present invention comprises a body 112 having multiple slots 114, 115 formed in an underside 116 thereof. As with the above-discussed embodiments, a pliant cover strip can be employed to cover each of the slots and protect a key stored within each slot. Alternatively, a single length of tape may cover both slots.

Referring to Figure 5A, a key 18 is secured within a slot 114 in the underside 20 116 of the present invention by a strip 20. As will be understood by those of skill in the art, the strip 20 prevents water and other elements from entering the slot 114 and corroding or otherwise destroying the key 18. With regard to Figure 5B, the ribs 24 aid in sealing the slot 114 from the elements. As discussed above, the ends of the strip 20 may be angled to snuggly fit against the external ends of the slot. For example, 25 referring to Figure 3, the intersection of the slot 14 and the bottom surface 16 of the device 10 forms an angle. The strip 20 can have ends 28, 30 with a similar angle to secure the key 18 in the slot 14 without a gap between the cover strip 20 and the ends of the slot 14, thus safely securing the key 18 in the slot 14 and preventing exposure of the key 18 to the elements.

30 Of course, as discussed above, the cover strip may be replaced with other sealing means such as tape, glue or other devices known to those of skill in the art. Likewise,

other devices may be stored in the slot 14. For example, instead of a key 18, money or other items may be safely and securely stored in the slot 14 of the device 10 as will be easily understood by those of skill in the art.

In practice, a user places a key to be stored in the slot 14 of the device 10.
5 Thereafter, a strip 20 or other removable sealing device is used to enclose the key 18 the slot as shown in Figures 3, 5A and 5B. Preferably, once the strip 20 is placed in the slot 14, the key 18 is safely protected from the elements in the slot 14. Thus, the strip 20 is of a length to enclose the key 18 in the slot 14.

The device 10 may then be placed in a landscape with the entry of the slot 14
10 facing the supporting surface of the device such as the ground. Thus, people cannot see that the natural device 10, such as a rock, in fact protects a key as will be easily understood by those of skill in the art.

When a user needs the key 18, he or she can locate the device 10, turn it over,
15 remove the strip 20 and retrieve the key 18. After use, the key 18 can easily be returned to the slot 14 and secured in the slot 14 by a strip 20. Given the natural look of the device, it is unlikely that the key 18 will be found by unintended users as opposed to prior art key retrieving devices.

Although this invention has been disclosed in the context of certain preferred
embodiments and examples, it will be understood by those skilled in the art that the
20 present invention extends beyond the specifically disclosed embodiments to other alternative embodiments and/or uses of the invention and obvious modifications and equivalents thereof. Thus, it is intended that the scope of the present invention herein disclosed should not be limited by the particular disclosed embodiments described above, but should be determined only by the claims that follow.